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Approved for use through 10/31/99, OMB 0651-0031

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/979,998 10/032,647
	Filing Date	August 12, 1999 10/27/01
	First Named Inventor	Venkiteswatan Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
DBJ	AA	5,605,793		STEMMER	02-25-1997	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
DBJ	AB	WO	97/20078		Affymax Technologies N.V.	06-05-1997		
DBJ	AC	WO	97/35966		MAXYGEN INC.	10-02-1997		
DBJ	AD	WO	98/13487		MAXYGEN, INC.	04-02-1998		
DBJ	AE	WO	98/31837		MAXYGEN, INC.	07-23-1998		
DBJ	AF	WO	98/42832		California Institute of Technology	10-01-1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
DBJ	AG	OWEN, (1989), "Metabolism of Herbicides - Detoxification a the Basis of Selectivity" <i>Herbicides and Plant Metabolism</i> (Dodge AD, ed) pp 171-198 Cambridge University Press			
	AH	SHIOTA, et al., (1994) <i>Plant Physiol.</i> 106(1):17			
	AI	AONO, et al., (1995) <i>Plant Cell Physiol.</i> 36(8):1687			
	AJ	DATTA et al., (1992) <i>Plant Mol. Biol.</i> 20(4):619			
	AK	PARRY (1989) "Herbicide use and inventions" <i>Herbicides and Plant Metabolism</i> (Dodge AD, ed.) pp 1-36, Cambridge University Press, Cambridge, UK			
	AL	HOTZE M. et al., (1995) <i>FEBS Letters</i> , 374:345-350			
	AM	MAY et al., (1972) <i>J. Biol. Chem.</i> 248:1725-1730			
	AN	HINZ, et al., (1995) <i>Weed Science</i> 45:474-480			
	AO	DCSA; el Kasmi A. et al., (1994) <i>Biochemistry</i> 33:11217-11224			
	AP	LATHROP et al., (1996) <i>J. Mol. Biol.</i> , 255:641-665			
	AQ	FREAR DS (1976) <i>Herbicides</i> , Kerney PC and Kaufman DD, eds., pp 541-594, Marcell Dekker, New York			
DBJ	AR	ANDERSON JF (1994) <i>Biochemistry</i> 33:2171-2177			

Examiner Signature	Diana B...	Date Considered	3/7/03
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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/073,399 10/03/99 10/29/99
	Filing Date	August 12, 1999
	First Named Inventor	Venkateswatan Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

DS	AS	STEMMER, <i>Science</i> 270:1510 (1995)	
	AT	STEMMER et al., <i>Gene</i> 164:49-53 (1995)	
	AU	STEMMER, <i>Bio/Technology</i> 13:549-553 (1995)	
	AV	STEMMER, <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:10747-10751 (1994)	
	AW	STEMMER, <i>Nature</i> 370: 389-391 (1994)	
	AX	CRAMERI et al., <i>Nature Medicine</i> 2(1):1-3 (1996)	
	AY	CRAMERI et al., <i>Nature Biotechnology</i> 14:315-319 (1996)	
	AZ	CLINE (1996) <i>Nucleic Acids Res.</i> 24:3546-3551	
	BA	WANG, (1997) <i>Biochemistry</i> 36:9486-9492	
DS	BB	JUNG (1992) <i>Gene</i> 121:17-24	

Examiner Signature	Diana P.	Date Considered	3/17/03
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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>	Complete if Known	
	Application Number	09/373,333 10/032,147
	Filing Date	August 12, 1999 10/24/01
	First Named Inventor	Venkiteswatan Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
DPB	AA	5,512,463		Stemmer	04-30-1996	
	AB	5,514,588		Varadaraj	05-07-1996	
	AC	5,605,793		Stemmer	02-25-1997	
	AD	5,763,239		Short et al.	06-09-1998	
	AE	5,789,228		Lam et al.	08-04-1998	
	AF	5,811,238		Stemmer et al.	09-22-1998	
	AG	5,814,473		Warren et al.	09-29-1998	
	AH	5,830,696		Short	11-03-1998	
	AI	5,830,721		Stemmer et al.	11-03-1998	
	AJ	5,834,252		Stemmer et al.	11-10-1998	
	AK	5,837,458		Minushull et al.	11-17-1998	
	AL	5,876,997		Kretz	03-02-1999	
	AM	5,925,749		Mathur, et al.	07-20-1999	
	AN	5,928,905		Stemmer, et al.	07-27-1999	
	AO	5,939,250		Short, Jay M.	08-17-1999	
	AP	5,939,300		Robertson, et al.	08-17-1999	
	AQ	5,942,430		Robertson, et al.	08-24-1999	
	AR	5,948,666		Callen, et al.	09-07-1999	
	AS	5,958,672		Short, Jay M.	09-28-1999	
	AT	5,958,751		Murphy, et al.	09-28-1999	
	AU	5,962,258		Mathur, et al.	10-05-1999	
	AV	5,962,283		Warren et al.	10-05-1999	
	AW	5,965,408		Short, Jay M.	10-12-1999	
DPB	AX	5,985,646		Murphy, et al.	11-16-1999	

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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/373,333 10/23/99 1647
	Filing Date	August 12, 1999 10/29/01
	First Named Inventor	Venkateswatan Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No	Foreign Patent Document		Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number					
DPJ	AY	EP	0293358A		Monsanto Co.	11-30-1988		
DPJ	AZ	WO	92/06201		Monsanto Co.	04-16-1992		
	BA	WO	97/07205		Novo Nordisk A/S	02-27-1997		
DPJ	BB	WO	97/20078		Affymax Technologies	06-05-1997		
	BC	WO	97/25410		Novo Nordisk A/S	07-17-1997		
	BD	WO	97/35957		Maxygen, Inc.	10-02-1997		
DPJ	BE	WO	97/35966		Maxygen, Inc.	10-02-1997		
	BF	WO	97/44361		Recombinant Biocatalysis Inc.	11-27-1997		
	BG	WO	97/48416		Recombinant Biocatalysis, Inc.	12-24-1997		
	BH	WO	97/48717		Recombinant Biocatalysis Inc	12-24-1997		
	BI	WO	97/48794		Recombinant Biocatalysis Inc	12-24-1997		
	BJ	WO	98/00526		Recombinant Biocatalysis Inc	01-08-1998		
	BK	WO	98/01581		Recombinant Biocatalysis Inc	01-15-1998		
	BL	WO	98/13485		Maxygen, Inc.	04-02-1998		
DPJ	BM	WO	98/13487		Maxygen, Inc.	04-02-1998		
	BN	WO	98/24799		Diversa Corp.	06-11-1998		
	BO	WO	98/27230		Maxygen, Inc.	06-25-1998		
	BP	WO	98/28416		Novo Nordisk A/S	07-02-1998		
DPJ	BQ	WO	98/31816		University of Minnesota	07-23-1998		
DPJ	BR	WO	98/31837		Maxygen, Inc.	07-23-1998		
	BS	WO	98/36080		Maxygen, Inc.	08-20-1998		

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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/373,333 10/03/99 (M)
	Filing Date	August 12, 1999 10/29/01
	First Named Inventor	Venkateswatan Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

	BT	WO	98/41622		Novo Nordisk A/S	09-24-1998	
	BU	WO	98/41623		Novo Nordisk A/S	09-24-1998	
	BV	WO	98/41653		Novo Nordisk A/S	09-24-1998	
DBJ	BW	WO	98/42832		California Institute of Technology	10-01-1998	
	BX	WO	98/48034		Diversa Corp.	10-29-1998	
DBJ	BY	WO	98/54330		Zeneca Ltd.	12-03-1998	
	BZ	WO	98/58085		Diversa Corp.	12-23-1998	
	CA	WO	99/07837		Diversa Corp.	02-19-1999	
DBJ	CB	WO	99/07865		Kimeragen Inc.	02-18-1999	
	CC	WO	99/08539		Diversa Corp.	02-25-1999	
	CD	WO	99/10472		Diversa Corp.	03-04-1999	
	CE	WO	99/10539		Diversa Corp.	03-04-1999	
	CF	WO	99/19518		Diversa Corp.	04-22-1999	
	CG	EP	0911396A2		Maxygen, Inc.	04-28-1999	
	CH	WO	99/21979		Maxygen, Inc.	05-06-1999	
	CI	EP	0911396A3		Maxygen, Inc.	05-06-1999	
	CJ	WO	99/23107		Maxygen, Inc.	05-14-1999	
	CK	WO	99/23236		Diversa Corp.	05-14-1999	
DBJ	CL	WO	99/25853		Pioneer Hi Bred Int.	05-27-1999	
	CM	EP	0934999A1		Maxygen, Inc.	08-11-1999	
	CN	WO	99/41369		Maxygen, Inc.	08-19-1999	
	CO	WO	99/41383		Maxygen, Inc.	08-19-1999	
	CP	WO	99/41402		Maxygen, Inc.	08-19-1999	
	CQ	WO	99/45154		Diversa Corp.	09-10-1999	
	CR	WO	99/57128		Maxygen, Inc.	11-11-1999	
	CS	WO	99/65927		Maxygen, Inc.	12-23-1999	

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	Application Number	09/379,338 10/032,121
	Filing Date	August 12, 1999 10/31/01
	First Named Inventor	Venkateswari Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

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DS	AA	CRAMERI et al., "DNA shuffling of a family of genes from diverse species accelerates directed evolution" (1998) <i>Nature</i> vol. 391, pp 288-291			

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	Application Number	09/373,333- 10/032,647	
	Filing Date	August 12, 1999- 10/24/01	
	First Named Inventor	Venkateswari Subramanian	
	Group Art Unit	Unassigned	
	Examiner Name	Unassigned	
		Attorney Docket Number	02-025630US

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		Office	Number	Kind Code (if known)				
DDJ	AA	EP	0293358		Monsanto Co.	11-30-1988		
	AB	WO	92/06201		Monsanto Co.	04-16-1992		
	AC	WO	98/31816	abstract only	Minshull, et al.	07-23-1998		
	AD	WO	98/42852		Lerchl, et al.	10-01-1998		
	AE	WO	98/54330		Evans, et al.	12-03-1998		
	AF	WO	99/07865		Kimeragen, Inc.	02-18-1999		
	AG	WO	99/25853		Baszczynski, et al.	05-27-1999		
	AH	WO	99/38986		Guyer, et al.	08-05-1999		
	AI	WO	99/67402		Ward, et al.	12-29-1999		
DDJ	AJ	WO	00/09682		Affholter, et al.	02-24-2000		

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DDJ	AK	Lee, K.Y., et al., "Homologous recombination in plant cells after Agrobacterium-mediated transformation" Plant Cell. vol. 2 May 1990, p. 415-425, XP002128868					
DDJ	AL	Engels, P., et al., "Comparison of homologous recombination frequencies in somatic cells of petunia and tobacco...." The Plant Journal vol. 2, no. 1, 1992 p. 59-67, XP002128869					
DDJ	AM	Asboth, et al., "Catalytically active antibodies for herbicide-resistant crop plant production; antibody design for glyphosate inactivation; catalytic antibody; monoclonal antibody..." Plant Biotechnology EC-Hungary Workshop, 1-1-1991, p. 21, XP002074579					
DDJ	AN	Mourad, G., et al., "Intragenic recombination in the CSR1 locus of Arabidopsis" Mol. Gen. Genet., vol. 243, 1994, p. 178-184, XP002128867					
DDJ	AO	Majumder, K., et al., "Background-minimized cassette mutagenesis by PCR using cassette-specific selection..." PCR Methods and Applications, vol. 4, 1995 p.212-218 XP002128870					

Examiner Signature	Diane B.	Date Considered	3/17/03
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	Application Number	09/373,393 10/032,247
	Filing Date	August 12, 1999 10/29/01
	First Named Inventor	Venkiteswatan Subramanian
	Group Art Unit	Unassigned
	Examiner Name	Unassigned
	Attorney Docket Number	02-025630US

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DBJ	AA	OWEN AND deBOER, (1995) "Plant Metabolism and the Design of New Selective Herbicides" <i>Eighth International Congress of Pesticide Chemistry</i> (Ransdale NN, Kearney PC and Plimmer JR, eds), pp 257-268, American Chemical Society, Washington, D.C.	
	AB	PADGETTE et al., (1996) "New weed control opportunities: Development of soybeans with a Round UP Ready™ gene" <i>Herbicide-Resistant Crops</i> (Duke, ed.), pp 53-84, CRC Lewis Publishers, Boca Raton	
	AC	VASIL (1996) "Phosphinothricin-resistant crops" <i>Herbicide-Resistant Crops</i> (Duke, ed.), pp 85-91, CRC Lewis Publishers, Boca Raton	
	AD	DRYER, (1996) "Techniques for producing herbicide-resistant crops" <i>Herbicide-Resistant Crops</i> (Duke SO, ed.) pp 85-91, CRC Lewis Publishers, Boca Raton	
	AE	BATARD Y. (1998) <i>The Plant Journal</i> 14:111-120	
	AF	LEVICHKIN (1995) <i>Mol. Biology</i> 29:572-577.	
	AG	HATTORI, J., et al., (1995) <i>Mol. Gen. Genet.</i> 246(4)419	
	AH	SUBRAMIAN et al., (1997) "Engineering dicamba selectivity in crops: A search for appropriate degradative enzyme(s)" <i>J. Ind. Microbiol.</i> 19:344-349	
	AI	FREY M et al., (1995) <i>Mol. Gen. Genetics</i> , 246:100-109	
MS	AJ	MAY et al., <i>J. Am. Chem. Soc.</i> 98:7856-7858	

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